

# United States Patent and Trademark Office

un

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

_		T	EVERONALLA CER PARTENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNET DOCKET NO.	CONFIRMATION NO.
	10/533,604	04/29/2005	Tomitaro Hara	112857-447	4564
	29175 RELL ROVD	7590 · 12/14/2007 & LLOYD, LLP		EXAM	INER
	P. O. BOX 113	35 · · ·		NGUYEN, KHANH TUAN	
	CHICAGO, IL	, 60690		ART UNIT	PAPER NUMBER
				1796	
		•			
				MAIL DATE	DELIVERY MODE
				12/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/533,604	HARA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Khanh T. Nguyen	1796			
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	vith the correspondence address			
	ORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 N	MONTH(S) OR THIRTY (30) DAYS			
WHIII - Extending after	CHEVER IS LONGER, FROM THE MAILING Domensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN (36(a). In no event, however, may a will apply and will expire SIX (6) MO (6), cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. INTHS ABANDONED (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on 29 C	October 2007.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	s action is non-final.				
3) 🗌	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🛛	Claim(s) 18,19 and 21 is/are pending in the ap	oplication.				
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)	Claim(s) is/are allowed.					
·	Claim(s) <u>18,19, and 21</u> is/are rejected.					
•	Claim(s) is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	tion Papers					
9)	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc		-			
	Applicant may not request that any objection to the	= : :				
—	Replacement drawing sheet(s) including the correct					
11)[	The oath or declaration is objected to by the Ex	xaminer. Note the attache	d Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
12)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
	)⊠ All b)□ Some * c)□ None of:					
	1. Certified copies of the priority document	ts have been received.				
	2. Certified copies of the priority document					
	3. Copies of the certified copies of the prior	rity documents have been	n received in this National Stage			
	application from the International Burea					
* ;	See the attached detailed Office action for a list	of the certified copies no	t received.			
Attachmer	nt(s)					
	ce of References Cited (PTO-892)		Summary (PTO-413)			
· ==	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application			
	er No(s)/Mail Date	6) 🔲 Other:	·			

Application/Control Number:

10/533,604 Art Unit: 1796

## **DETAILED ACTION**

### Final

## Response to Amendment

- 1. The amendment filed on 10/29/2007 is entered and acknowledged by the Examiner. Claims 18, 19, and 21 are currently pending in the instant application. Claims 1-17, 20, and 22-34 have been cancelled.
- 2. The rejection of claims 18, 19, and 21 under 35 U.S.C 102(e) and in the alternative under 35 U.S.C 103(a) over Tsuchida et al (JP Pub. 2000-082329) is maintained for the reason set forth in the Office Action mailed on 07/27/2007.

## Withdrawn Rejection

3. The rejection of claims 18, 19, and 21 under 35 U.S.C 102(b) and in the alternative under 35 U.S.C 103(a) over Goto et al (U.S Pat. 6,794,480) is withdrawn in light of Applicant's amendment and remarks.

# Response to Arguments

4. Applicant's arguments filed 10/29/2007 have been fully considered but they are not persuasive.

In response to Applicant's remarks filed on 10/29/2007, on page 8, Applicant argues that Tsuchida et al (JP Pub. 2000-082329) failed to teach or suggest the specific

Application/Control Number:

10/533,604

Art Unit: 1796

ratio range associated with the number of moles of the second compound and the protoic dissociation group. The Examiner respectfully disagrees with the Applicant's argument.

Applicant should refer to paragraph [0024] wherein Tsuchida et al teach a mixing ratio of the polymer (second compound) containing sulfuric acid radical (protoic dissociation group) ranging from 95/5 to 5/95 by weight ratio (i.e. mole ratio). Tsuchida et al further teach when the sulfuric acid radical content becomes less than 5 the ion conductivity or proton conductivity become difficult to acquire sufficiently.

Applicant also argues that neither Tsuchida et al nor Goto et al teach the second compound includes at least one of N, N-dimethyl formamide. The Examiner respectfully disagrees with the Applicant's argument.

Applicant should refer to paragraph [0006-0007] wherein Tsuchida et al teach a mixture of polar giant-molecule such as polyacrylamide and perfluoro sulfonic acid (Nafion) or perfuoro carboxylic acid (Flemion). The disclosure of polyacrylamide is considered to read on N, N-dimethyl formamide.

Based on the rational above, it is the Examiner's opinion that the reference meets Applicant's claims in their broadest interpretation and the rejection is maintained.

#### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number:

10/533,604

Art Unit: 1796

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh T. Nguyen whose telephone number is (571) 272-8082. The examiner can normally be reached on Monday-Friday 8:00-5:00 EST PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/533,604 Art Unit: 1796 Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

m

KTN 12/08/2007

LORNA M. DOUYON
PRIMARY EXAMINER